(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 April 2005 (14.04.2005)

PCT

(10) International Publication Number WO 2005/032992 A1

(51) International Patent Classification7: B66B 5/28, 5/00

(21) International Application Number:

PCT/IB2003/004368

(22) International Filing Date: 2 October 2003 (02.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): OTIS EL-EVATOR COMPANY [US/US]: 10 Farm Springs Road, Farmington, CT 06032-2568 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): COQUERELLE, Thomas [FR/FR]; 445, rue Lefebvre d'Orval, F-59500 Douai (FR). DET, Franck [FR/FR]; 170, rue du quartier des champs, F-45500 Saint Martin Sur Ocre (FR). DUCHAMP, Loïc [FR/FR]; 27, résidence Croix St Simon, F-45500 Gien (FR).
- (74) Agent: JOLLY, Jean-Pierre; Cabinet Jolly, 54, rue de Clichy, F-75009 Paris (FR).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

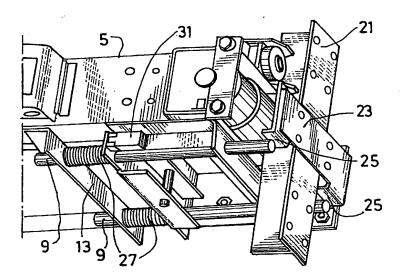
of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SAFETY DEVICE FOR MAINTENANCE PERSONNEL ON A CAR ROOF



(57) Abstract: The safety device according to the invention for maintenance personnel in elevators having no machine rooms and flexible tension member, the elevator booth comprising an upper median crosspiece (5) on its roof forming part of its support arcade is characterized in that it comprises, with symmetry with respect to the median traction plane of the booth or to the median plane of the set of flexible tension members (17), at least two rigid rods (9) mounted sliding on the crosspiece (5) on one side and approximately parallel to the latter and able to be moved in an active outgoing position projecting from the crosspiece (5) so as to come opposite and simultaneously in contact with a corresponding stop (23) fixed at an adequate height on the booth guide rail (21), and in an inactive incoming position where they are out of range of said stop (23) corresponding to the normal functioning of the elevator.